





How to replace the front hub bearing on Volkswagen Transporter T4


VIDEO TUTORIAL

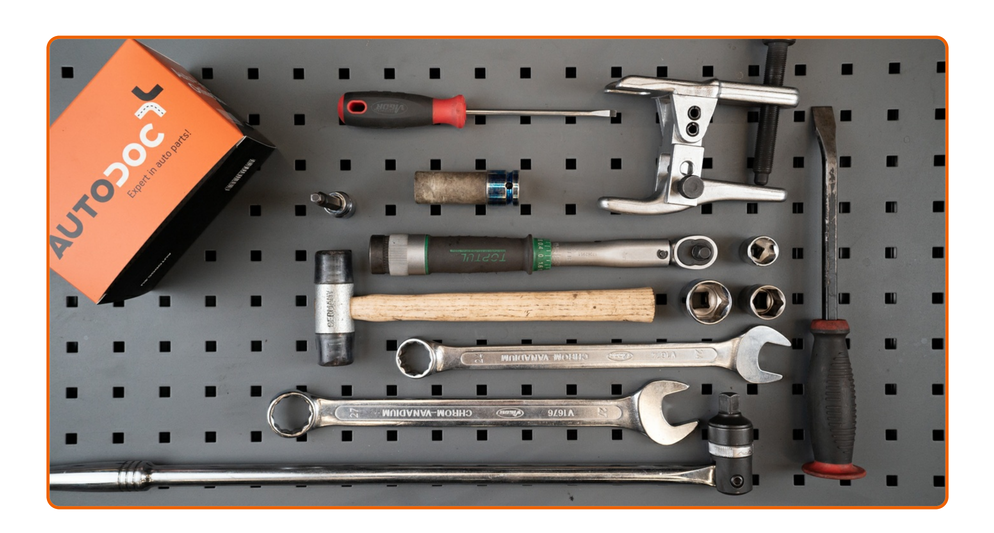
Important!

This replacement procedure can be used for:
VW TRANSPORTER IV Box (70A, 70H, 7DA, 7DH) 2.5 TDI, VW TRANSPORTER IV Bus (70B, 70C, 7DB, 7DK, 70J, 70K, 7DC, 7DJ) 2.5 TDI, VW TRANSPORTER IV Platform/Chassis (70E, 70L, 70M, 7DE, 7DL, 7D 2.5 TDI

The steps may slightly vary depending on the car design.



REQUIRED TOOLS:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #24
- Combination spanner #27
- Drive socket # 19
- Drive socket # 21
- Drive socket # 27
- HEX bit No.H6.
- XZN socket bit # 14
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Flat Screwdriver
- Circlip pliers
- Bush and bearing driver set
- Crow bar
- Ball joint puller
- Wheel chock

AUTODOC recommends:

- Do not re-use the bearing assembly of your Volkswagen Transporter T4 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:



1

Secure the wheels with chocks.



2

Loosen the wheel mounting bolts. Use wheel impact socket #17.

3



Raise the front of the car and secure on supports.

4



Unscrew the wheel bolts.

AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5



Remove the wheel.

6



Loosen the tension of the torsion bars. Use a combination spanner #24.

7

Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

8

Spread the brake pads. Use a flat screwdriver.

9



Unscrew the caliper bracket fastening. Use a drive socket #21. Use a tap wrench. Use a ratchet wrench.



10



Remove the brake caliper together with its bracket.

AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

11



Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

12



Unscrew the brake disc fastening Use HEX No.H6. Use a ratchet wrench.

13



Remove the brake disc.

14



Unscrew the wheel hub axle nut. Use a drive socket #27.

15

Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

16



Unscrew the top fastening of the ball joint. Use a combination spanner #24.

17



Unscrew the lower ball joint fastening from the steering knuckle. Use XZN #14. Use a ratchet wrench.

18

Disconnect the ball joint from the steering knuckle



19



Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

20



Unscrew the end fastening nut to the steering knuckle. Use a drive socket #19. Use a ratchet wrench. Use a tap wrench.

21



Disconnect the tie rod end from the steering knuckle. Use a ball joint puller. Use a hammer.

22



Remove the steering knuckle together with the hub. Use a crowbar.

23



Press the wheel hub out from the tapered roller bearing. Use a bush and bearing driver set. Use a hammer.

24



Remove the retaining ring. Use circlip pliers.



25



Press out the wheel hub bearing. Use a bush and bearing driver set.

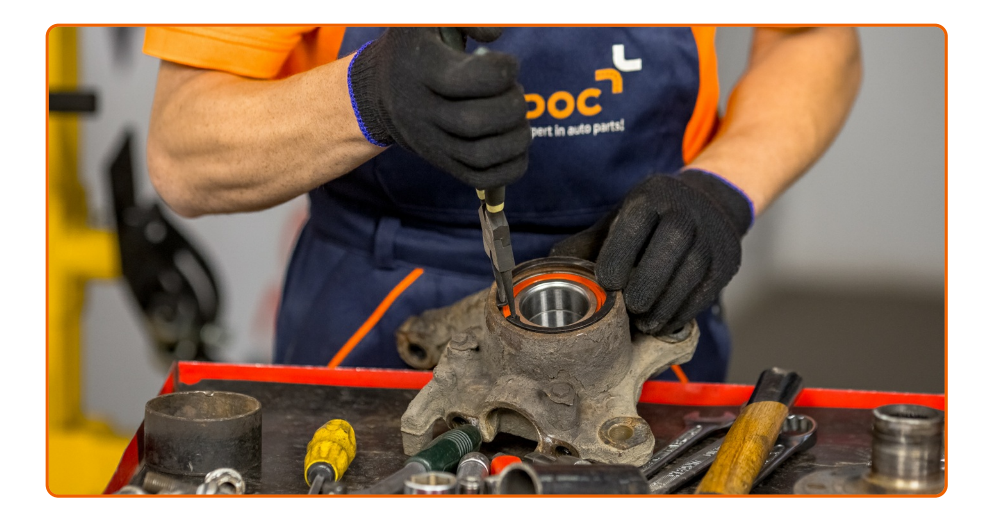
AUTODOC recommends:

- Apply special grease to the bearing assembly mounting seat.

26

Press the new bearing in the steering knuckle. Use a bush and bearing driver set.

27



Install the retaining ring in the steering knuckle. Use circlip pliers.

28



Press the wheel hub into the bearing inner race. Use a bush and bearing driver set.



29



Install the steering knuckle with a hub in assembly.

30



Connect the ball joint to the steering knuckle Use a flat screwdriver.

31



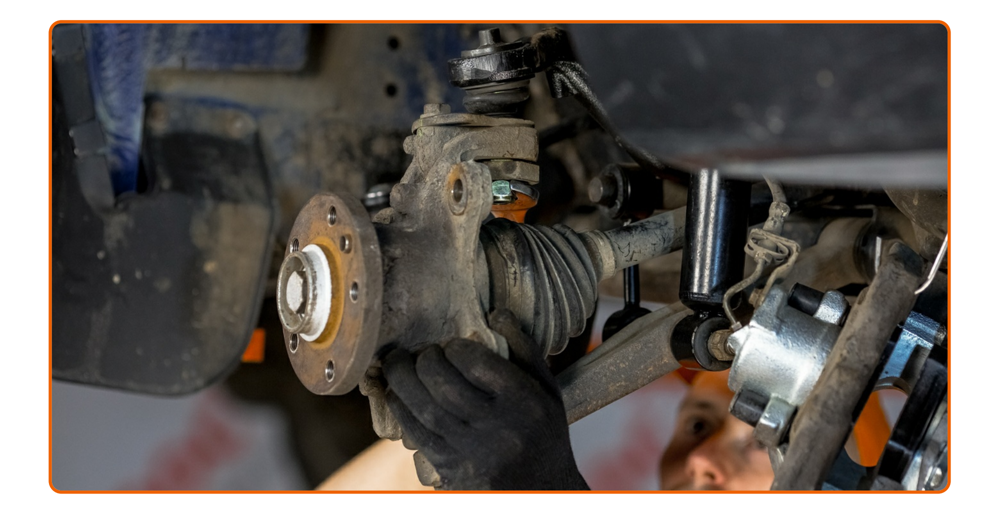
Tighten the lower fastening of the ball joint. Use XZN #14. Use a torque wrench. Tighten it to 50 nm torque.

32



Tighten the hub. Use a drive socket #27. Use a torque wrench. Tighten it to 150 nm torque.

33



Tighten the top fastening of the ball joint. Use a combination spanner #24. Use a crowbar. Use a torque wrench. Tighten it to 70 nm torque.

34



Install the brake disc.

35



Tighten the brake disc fastening Use HEX No.H6. Use a torque wrench. Tighten it to 9 nm torque.

36



Install the brake caliper together with its bracket.

37



Tighten the brake caliper bracket. Use a drive socket #21. Use a tap wrench. Use a torque wrench. Tighten it to 75 nm torque.

38



Connect the tie rod end to the steering knuckle.

39



Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 70 nm torque.

40



Tighten the tension of the torsion bars.

41

Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

42



Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- After applying the spray, wait a few minutes.

43



Install the wheel.

AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

44



Screw in the wheel bolts. Use wheel impact socket #17.

45



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.

46

Remove the jacks and chocks.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

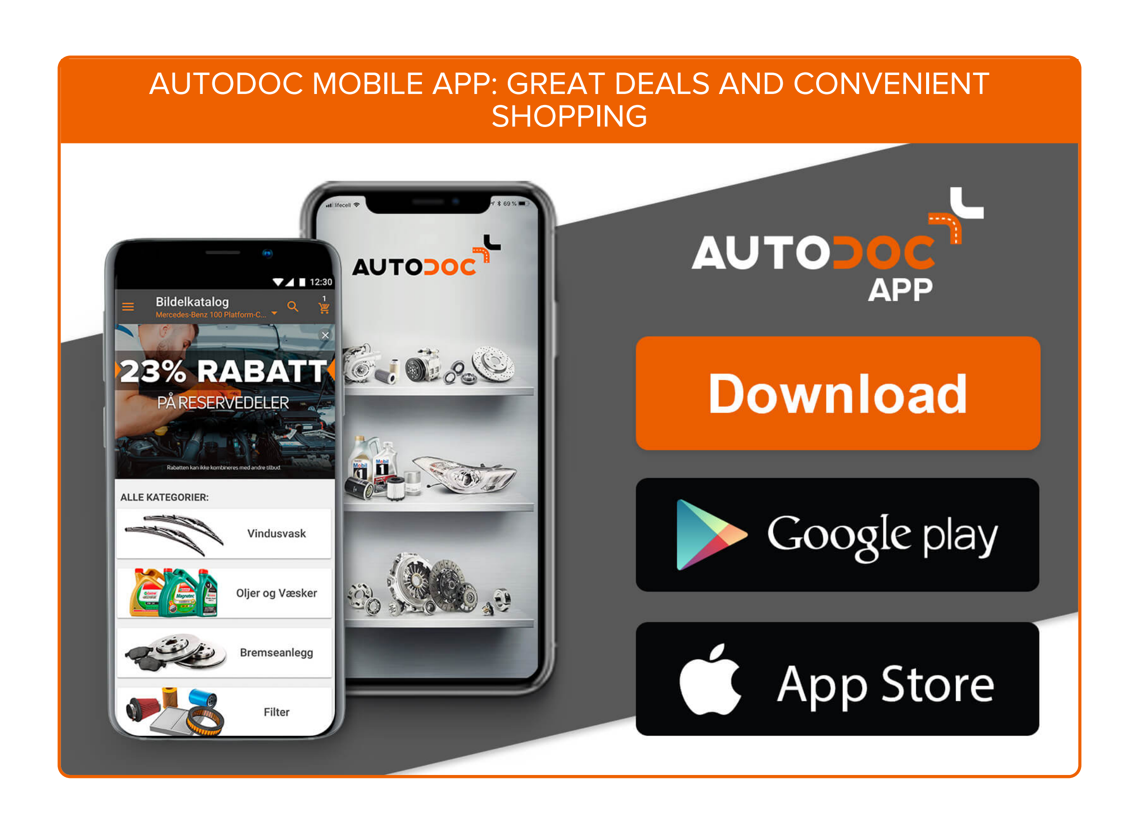


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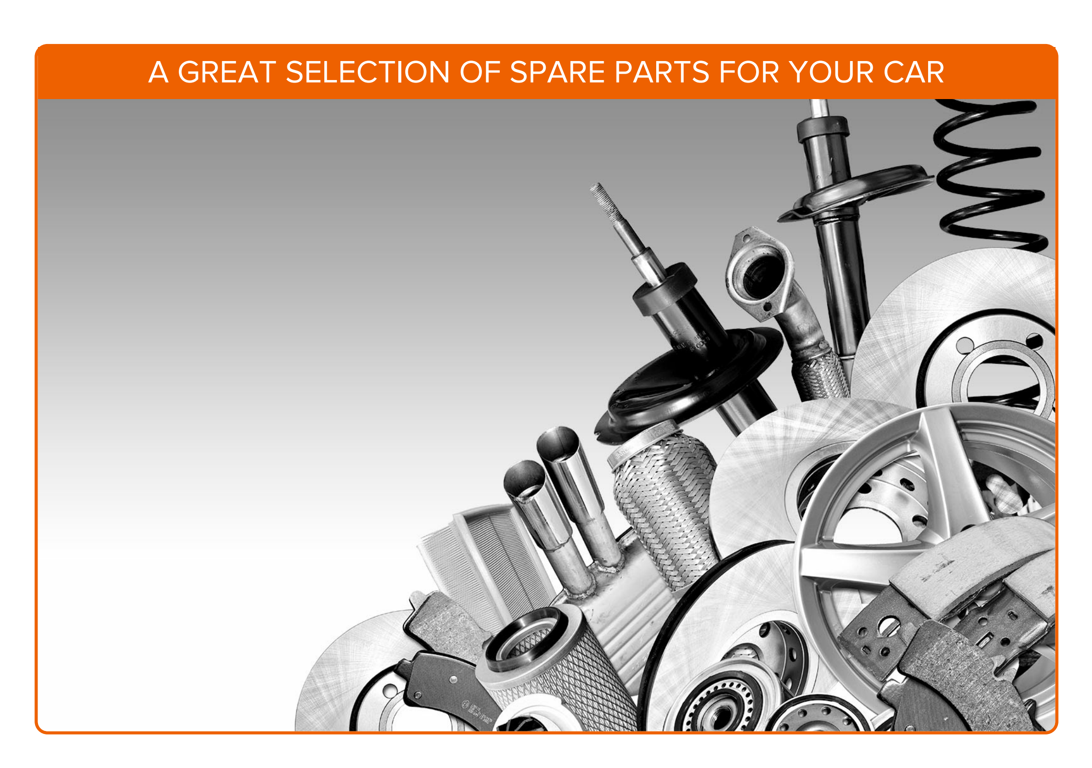


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